

# EUROPEAN PATENT OFFICE

## Patent Abstracts of Japan

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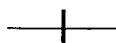









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INVENTOR : NAKAMA SEIJI;

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D01F 6/70 D01F 6/76 D02G 3/32  
D02G 3/38 D04B 21/00

TITLE : POLYURETHANE POLYUREA ELASTIC  
YARN HAVING MODIFIED CROSS  
SECTION AND ITS PRODUCTION

	紡 口 形 状	単糸の断面形状
No. 1	 (縦/横 = 1/1)	
No. 2	 (縦/横 = 1/3)	
No. 3		
No. 4		
No. 5		
No. 6		

ABSTRACT : PURPOSE: To suppress movement of position of polyurethane polyurea elastic yarn in fabric without fusion bonding by specifying both the number of projections at the outer peripheral part of single fiber and a ratio of the radius of a circumcircle and the radius of an inscribed circle of a section.

CONSTITUTION: This polyurethane polyurea elastic yarn having modified section has three or more projections at the outer peripheral part of single fiber and a ratio  $R/r$  of the radius  $R$  of a circumcircle and that ( $r$ ) of an inscribed circle of a section of 1.1-2.0. The cross-sectional shape is made into a polygonal shape such as a rectangle or a regular square or into a shape having projections on the circumference. A shape having corners on the outer periphery of single fiber is continued in the direction of the yarn. The coefficient of friction between polyurethane polyurea elastic yarn and yarn to be knitted with the elastic yarn is obtained to suppress sloughing phenomena.

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